

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1004	(715/500).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/08/31 15:08
L3	7	1 and ((locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge)))	US-PGPUB; USPAT	OR	ON	2005/08/31 15:09
S1	25	("6553365" "6604110" "6772137" "5761512" "6144944" "6208994" "6240466" "6397203" "6697800" "20030105732" "6349295" "6377949" "6353840" "6560588" "6626957" "6640229" "6687873" "6732331" "6754648" "20020087600" "20020152244" "20040205548" "5895470" "6078918" "6115709").pn.	US-PGPUB; USPAT	OR	ON	2005/08/30 16:39
S2	3	("6356898" "6560588" "6480835").pn.	US-PGPUB; USPAT	OR	ON	2005/08/29 15:34
S3	929	(locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge))	US-PGPUB; USPAT	OR	ON	2005/08/31 15:09
S4	46	((locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge))) same expert	US-PGPUB; USPAT	OR	ON	2005/08/29 15:37
S5	3	S4 and "715"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/08/29 15:59
S6	46	((locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge))) same expert	US-PGPUB; USPAT	OR	ON	2005/08/29 15:59
S7	24	S6 and "707"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/08/29 15:59
S8	3	S6 and "715"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/08/29 15:59
S9	23	S7 not S8	US-PGPUB; USPAT	OR	ON	2005/08/29 16:12
S10	82	mitre.as.	US-PGPUB; USPAT	OR	ON	2005/08/29 16:12
S11	0	S10 and "expert finder"	US-PGPUB; USPAT	OR	ON	2005/08/29 16:13
S12	0	S10 and "expertise management"	US-PGPUB; USPAT	OR	ON	2005/08/29 16:13
S13	3	S10 and (expertise or expert)	US-PGPUB; USPAT	OR	ON	2005/08/29 16:15

S14	929	(locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge))	US-PGPUB; USPAT	OR	ON	2005/08/29 16:15
S15	0	S14 and S10	US-PGPUB; USPAT	OR	ON	2005/08/29 16:15
S16	930	(locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge))	US-PGPUB; USPAT	OR	ON	2005/08/30 16:39
S17	113	S16 and category and topic	US-PGPUB; USPAT	OR	ON	2005/08/30 16:40
S18	12	S17 and decay\$	US-PGPUB; USPAT	OR	ON	2005/08/30 19:49
S19	16	tacit.as.	US-PGPUB; USPAT	OR	ON	2005/08/30 17:45
S20	29	"newbold david".in.	US-PGPUB; USPAT	OR	ON	2005/08/30 18:21
S21	5	"newbold david leroy".in.	US-PGPUB; USPAT	OR	ON	2005/08/30 18:21
S22	8	"expert finder" or expertfinder	US-PGPUB; USPAT	OR	ON	2005/08/30 19:40
S23	930	(locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge))	US-PGPUB; USPAT	OR	ON	2005/08/30 19:49
S24	54	S23 and decay\$	US-PGPUB; USPAT	OR	ON	2005/08/31 10:38
S25	42	S24 and expert	US-PGPUB; USPAT	OR	ON	2005/08/30 19:50
S26	18	S24 and ((locate or find) near3 expert)	US-PGPUB; USPAT	OR	ON	2005/08/30 19:51
S27	26	S25 not gilmour.in.	US-PGPUB; USPAT	OR	ON	2005/08/30 19:55
S28	33	S24 and (expertise or affinity)	US-PGPUB; USPAT	OR	ON	2005/08/30 19:55
S29	10	S28 not S27	US-PGPUB; USPAT	OR	ON	2005/08/30 19:55
S30	0	("6377949" "20050108281" "6711570" "6668251" "6205472" "6832224" "20020087600").pn. and reset\$	US-PGPUB; USPAT	OR	ON	2005/08/31 10:37
S31	46	((locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge))) same expert	US-PGPUB; USPAT	OR	ON	2005/08/31 10:37
S32	5	S31 and reset\$	US-PGPUB; USPAT	OR	ON	2005/08/31 10:37

S33	930	(locat\$ or determin\$ or calculat\$) with (user near2 (affinity or expertise or knowledge))	US-PGPUB; USPAT	OR	ON	2005/08/31 10:38
S34	54	S33 and decay\$	US-PGPUB; USPAT	OR	ON	2005/08/31 10:38
S35	6	S34 and reset\$	US-PGPUB; USPAT	OR	ON	2005/08/31 10:39
S36	137	S33 and reset\$	US-PGPUB; USPAT	OR	ON	2005/08/31 10:39
S37	1	S33 and (reset\$ near3 score)	US-PGPUB; USPAT	OR	ON	2005/08/31 10:40
S38	2	S33 and (reset\$ with score)	US-PGPUB; USPAT	OR	ON	2005/08/31 10:40
S39	22	S33 and (increas\$ near3 score)	US-PGPUB; USPAT	OR	ON	2005/08/31 10:41
S40	0	S39 and decay\$	US-PGPUB; USPAT	OR	ON	2005/08/31 10:41
S41	1	"6356898".pn.	US-PGPUB; USPAT	OR	ON	2005/08/31 14:01
S42	1	"6076088".pn.	US-PGPUB; USPAT	OR	ON	2005/08/31 14:12
S43	1	"5963940".pn.	US-PGPUB; USPAT	OR	ON	2005/08/31 14:12
S44	3	("6377983" "6356898" "6513039").pn.	US-PGPUB; USPAT	OR	ON	2005/08/31 15:08

WDA
8/31/05



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1 Collaborative Virtual Design Environments: Expert Finding for Collaborative Virtual Environments

Mark Maybury, Ray D'Amore, David House

December 2001 **Communications of the ACM** Volume 44 Issue 12

Full text available: pdf (219.52 KB) html (0.50 KB) Additional information: full citation, references, abstract, index terms

2 Web mining: Ranking user's relevance to a topic through link analysis on web logs

Jidong Wang, Zheng Chen, Li Tao, Wei-Ying Ma, Liu Wenyin

November 2002 **Proceedings of the 4th international workshop on Web information and data management**

Full text available: pdf (273.28 KB) Additional information: full citation, abstract, references, abstract, index terms

Computing the web-user's relevance to a give topic is an important task for any personalization service on the Web. Since the interest and preference of a web-user are revealed in his Web browsing history, in this paper we develop a novel approach that utilizes Web logs to compute the relevance of a web-user to a given query. In contrast to traditional methods that are purely based on textual analysis, our approach calculates the web-user's relevance through link analysis under a unified framework ...

Keywords: link analysis, web mining, web usage mining

3 Posters: Expertise community detection

Raymond D'Amore

July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Full text available: pdf (126.52 KB) Additional information: full citation, abstract, references, index terms

Providing knowledge workers with access to experts and communities-of-practice is central to sharing expertise and crucial to organizational performance, adaptation, and even survival. This paper covers ongoing research to develop an Expert Locator prototype, a model-based system for detecting experts and broader communities-of-practice. The underlying expertise model is extensible and supports aggregation of evidence across diverse sources. The prototype is being used to locate critical expertise ...

Keywords: distributed retrieval, expert finding, expertise model, fusion

4 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles

Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Full text available: pdf (123.28 KB) Additional information: full citation, abstract, references, index terms

A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...

Keywords: collaborative systems, networking and distributed web applications, privacy and preferences

5 Doctoral consortium: Recommending expertise in an organizational setting

David W. McDonald

May 1999 **CHI '99 extended abstracts on Human factors in computing systems**

Full text available: pdf (205.55 KB) Additional information: full citation, abstract, references

This work explores how information systems can be augmented to assist users in finding other individuals who are likely to have specialized, pertinent information that they need. This paper describes a field study that considers the social and cognitive mechanisms that people use to find candidate sources of expertise. These mechanisms are the basis for a recommender system that can help users find expertise.

Keywords: computer supported cooperative work, expertise, field study, qualitative research, recommender system, system design

6 WWW mining: Graph-based ranking algorithms for e-mail expertise analysis

Byron Dom, Iris Eiron, Alex Cozzi, Yi Zhang

June 2003 **Proceedings of the 8th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery**

Full text available: pdf (126.52 KB) Additional information: full citation, abstract, references, abstract, index terms

In this paper we study graph-based ranking measures for the purpose of using them to rank email correspondents according to their degree of expertise on subjects of interest. While this complete expertise analysis consists of several steps, in this paper we focus on the analysis of digraphs whose nodes correspond to correspondents (people), whose edges correspond to the existence of email correspondence between the people corresponding to the nodes they connect and whose edge directions point f ...

